

Fig. 1A

AND EVENTUALLY HOMOZYGOUS MICE

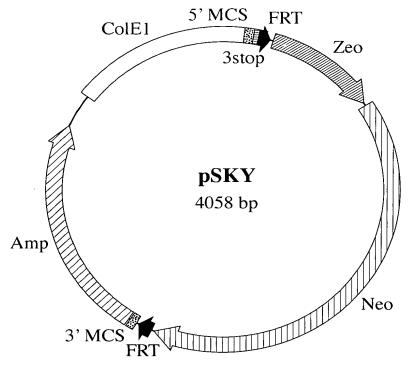
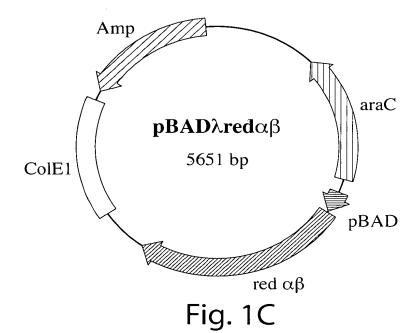
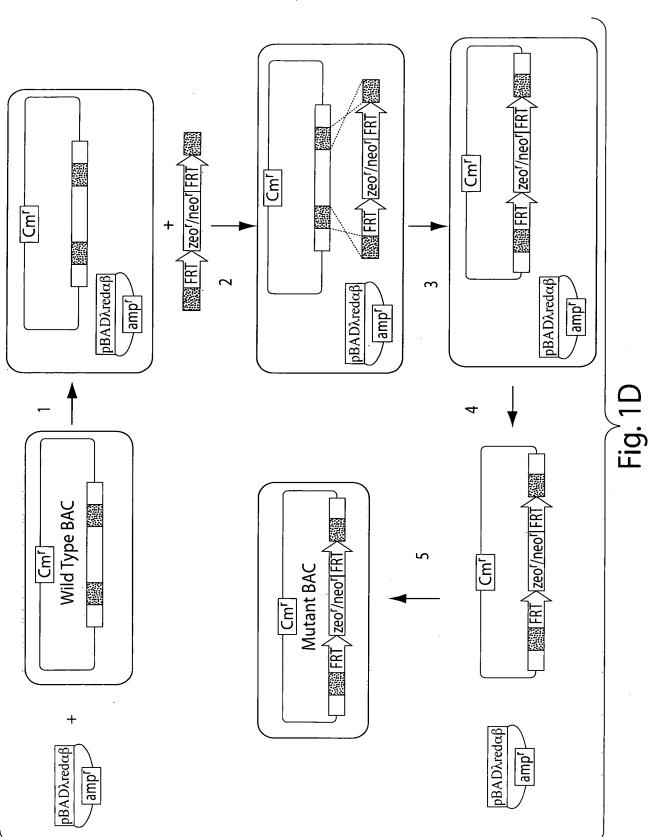


Fig. 1B





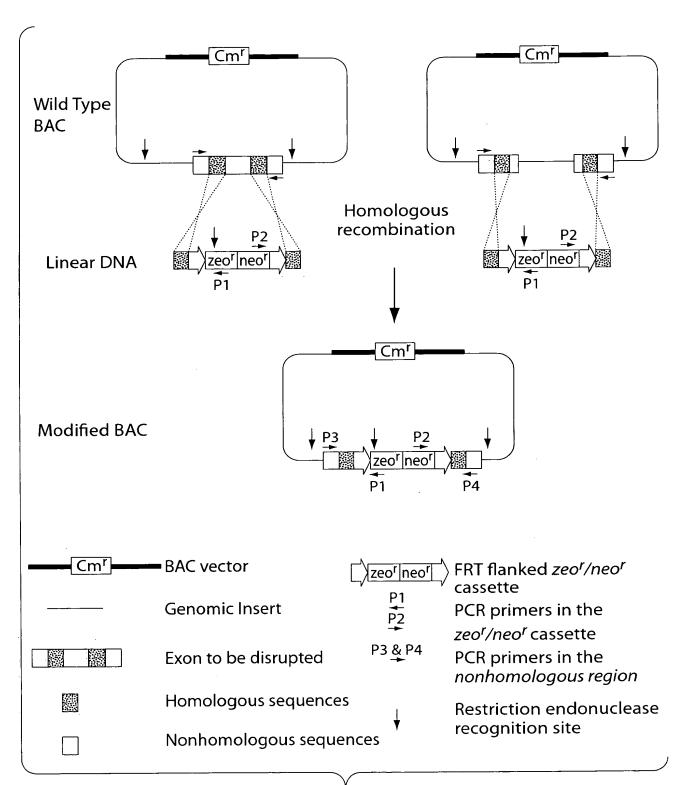
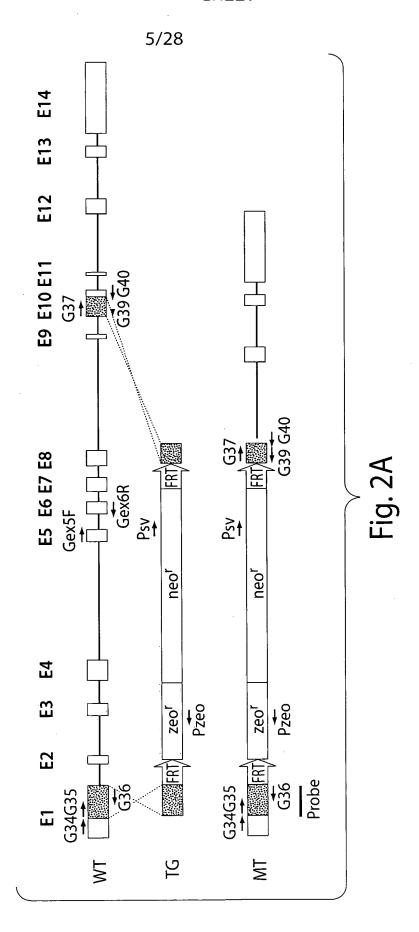
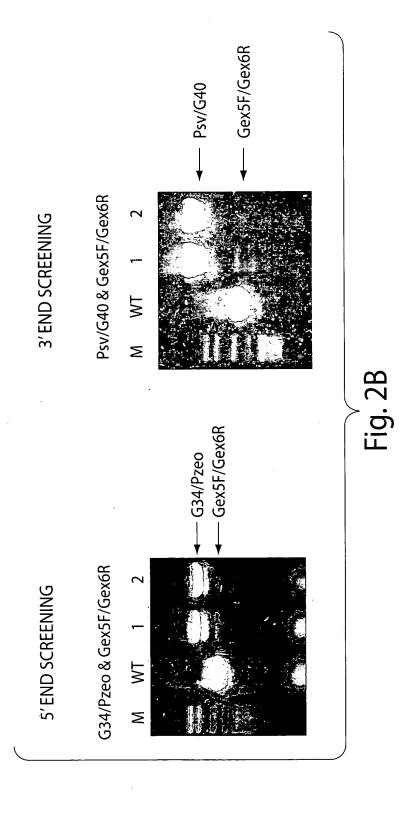


Fig. 1E





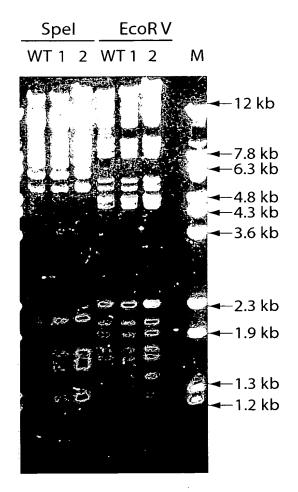


Fig. 2C

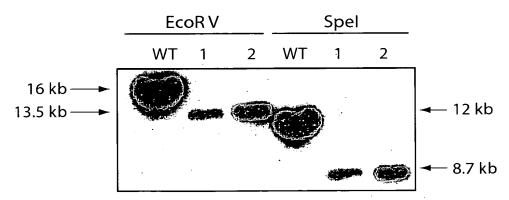
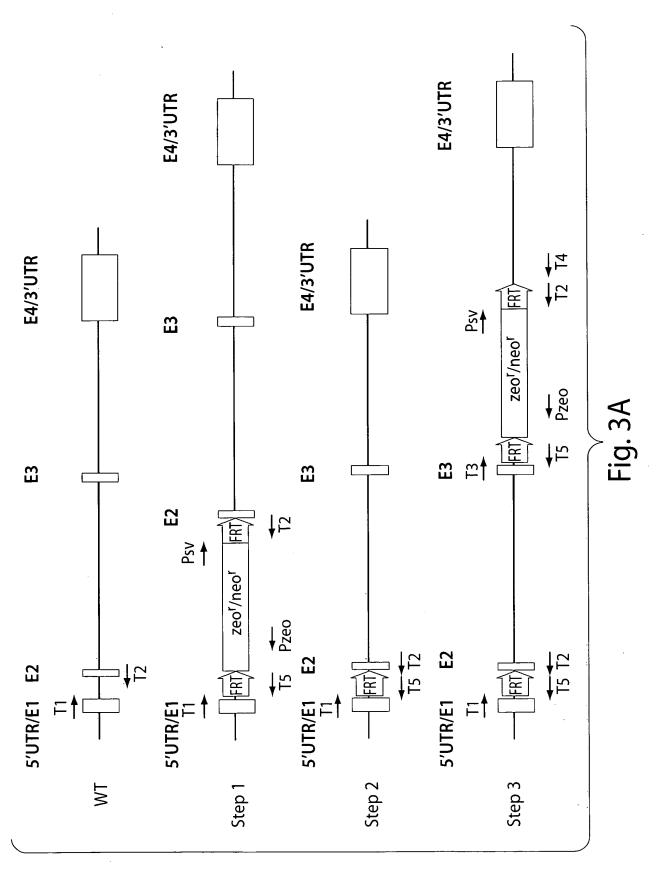


Fig. 2D



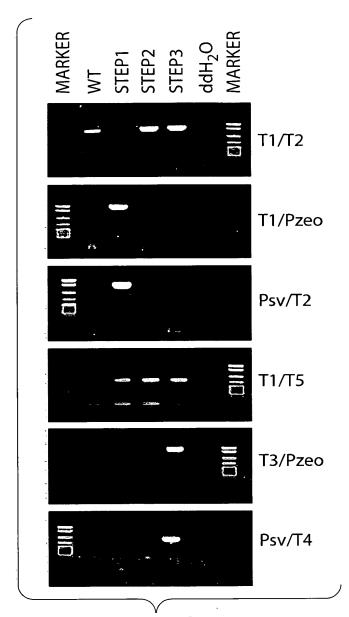
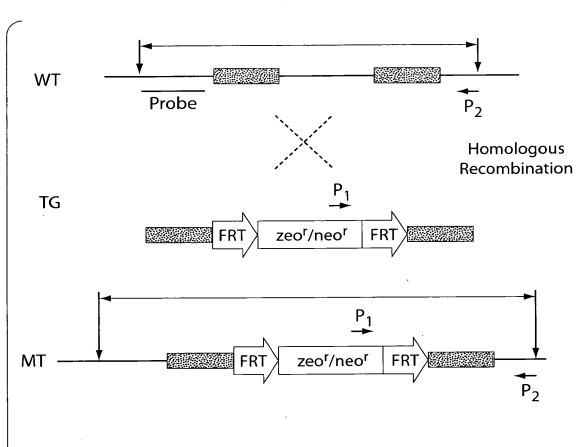


Fig. 3B

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	ASSAY	RESULTS		
•	Genomic PCR w/ P1/P2			
	Southern Blotting	MT WT		
			Random Insertion	
	Genomic PCR w/ P1/P2	No Product		
	Southern Blotting	WT		

Fig. 4A

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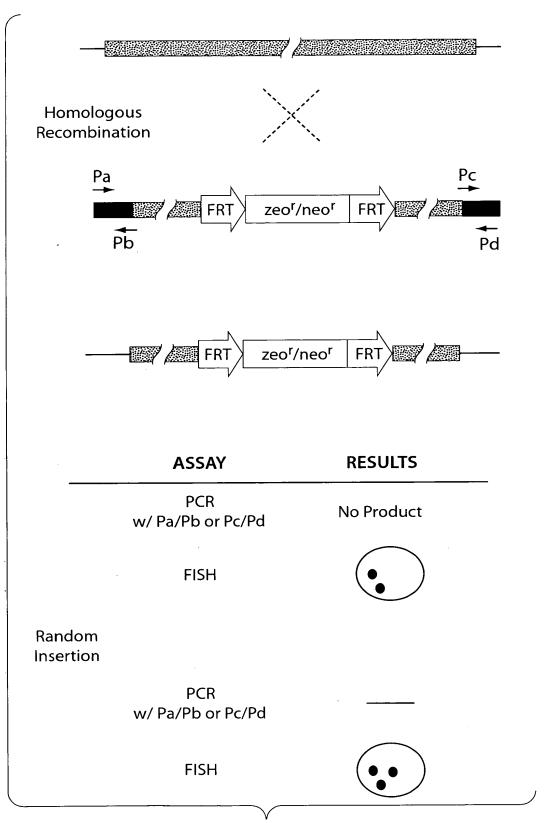


Fig. 4B

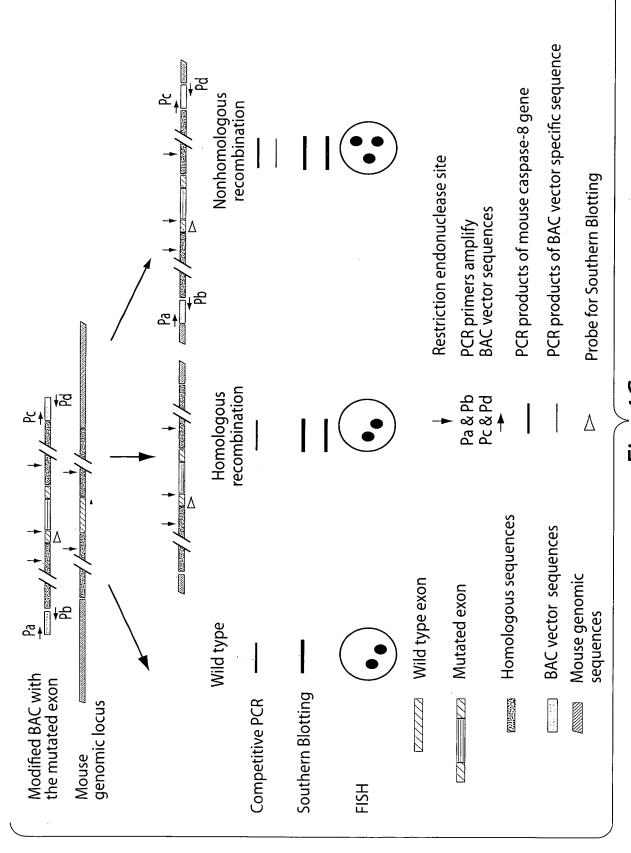


Fig. 4C

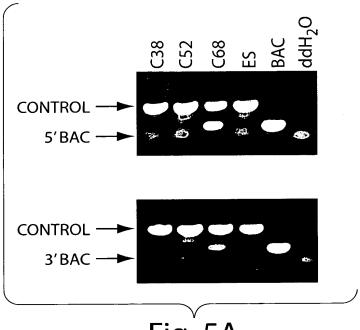


Fig. 5A

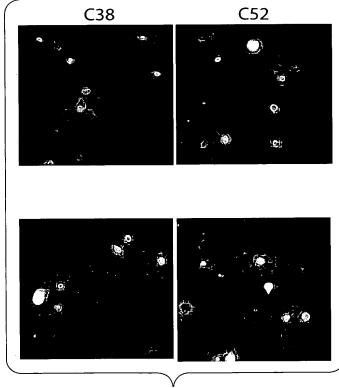


Fig. 5B

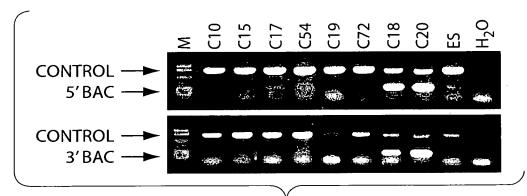


Fig. 6A

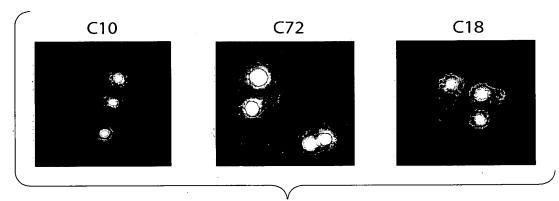


Fig. 6B

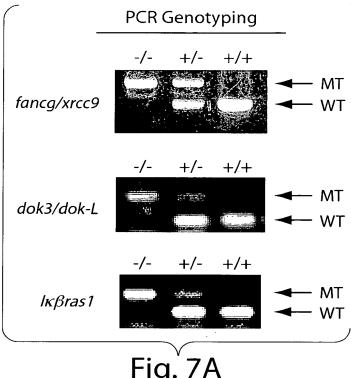


Fig. 7A

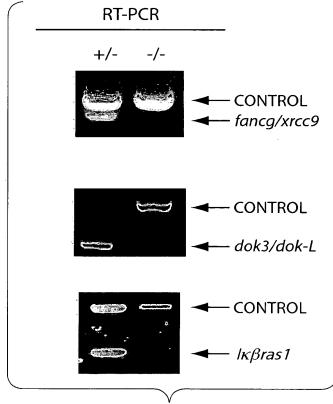
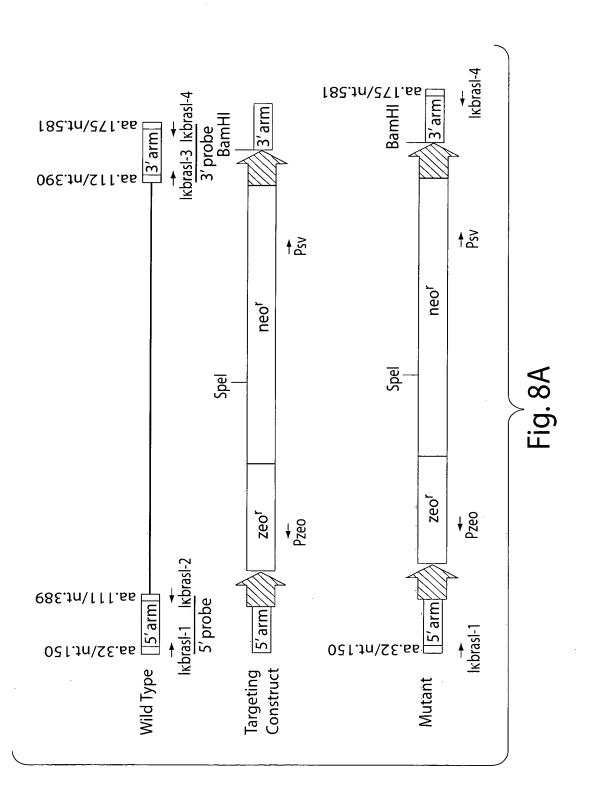


Fig. 7B

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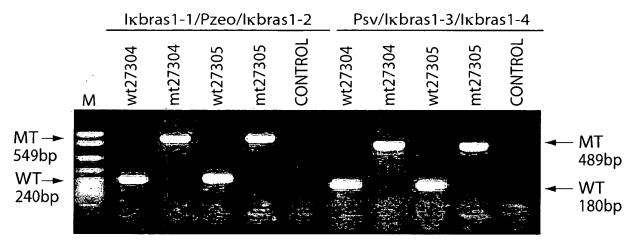


Fig. 8B

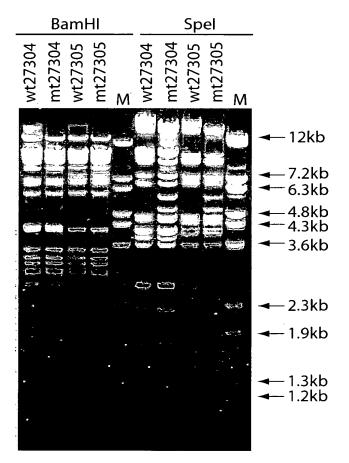
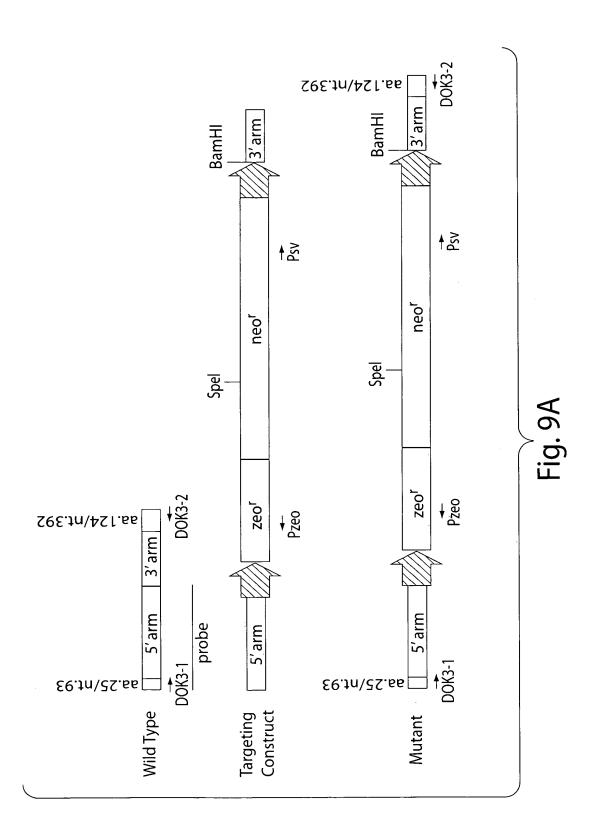


Fig. 8C

5' pro	bbe	
BamHl	Spel	_
wt27304 mt27304 wt27305 mt27305	wt27304 mt27304 wt27305 mt27305	← 12kb
		← 7.2kb ← 6.3kb ← 4.8kb
3' pro	bbe	
		← 12kb
:		← 7.2kb ← 6.3kb
		→ 4.8kb

Fig. 8D



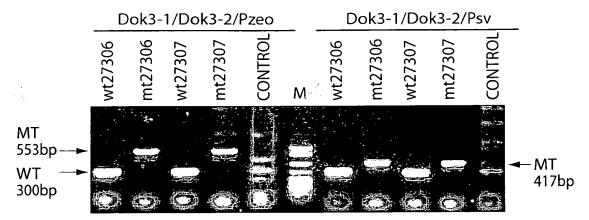


Fig. 9B

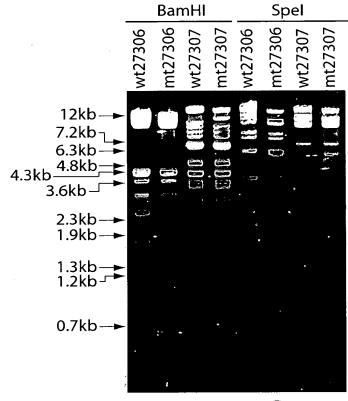


Fig. 9C

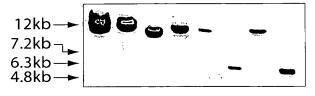


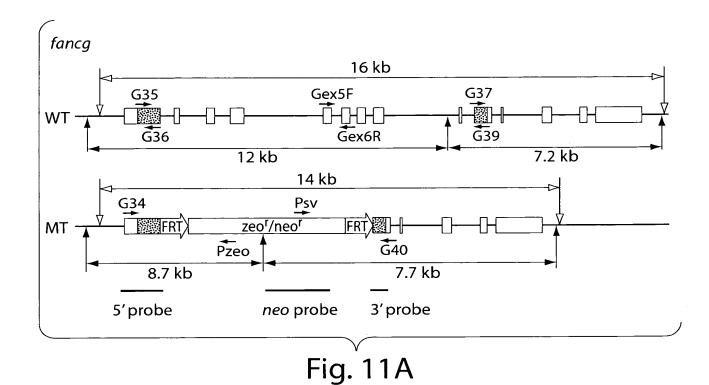
Fig. 9D

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Gene/Clone	5'arm (nt)	3'arm (nt)	Deletion (nt)	Efficiency*
fancg/xrcc9	480	260	4900	100%
Iκβras1.#1	185	138	unknown	30%
Iκβras1.#2	185	138	unknown	25%
tab2.#1	213	340	869	30%
tab2.#2	213	340	869	50%
pag.#1	105	373	no	100%
pag.#2	105	373	no	58%
pag.#3	105	373	no	100%
dok3/dok-L#1	188	93	no	42%
dok3/dok-L#2	188	93	no	30%
bruce	50	50	no ·	100%

^{*}The efficiency was calculated based on nested PCR screening of 24 ampicillin and chloramphenical double resistant colonies at the 3'integration site.

Fig. 10



5'END SCREENING

M WT 1 2

—G34/Pzeo
800 bp
—Gex5F/Gex6R
300 bp

Fig. 11B

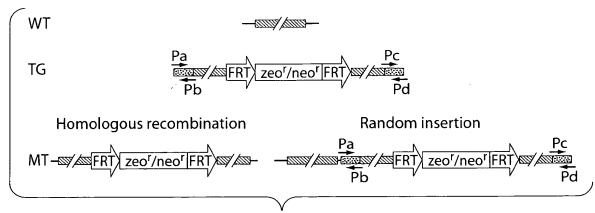
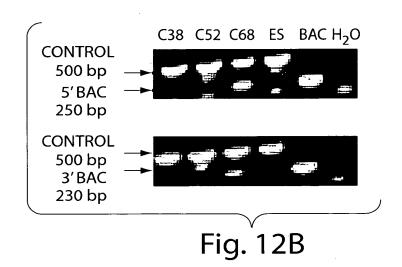


Fig. 12A



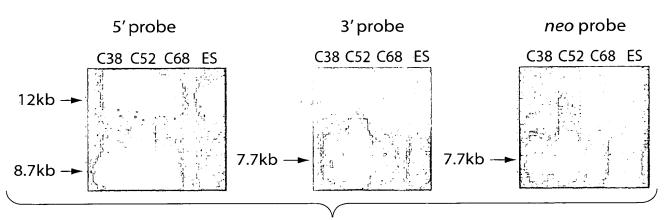


Fig. 12C

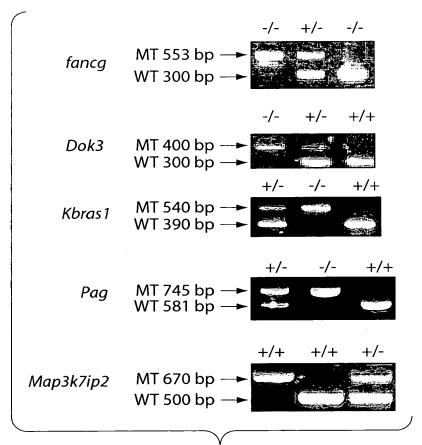


Fig. 13A

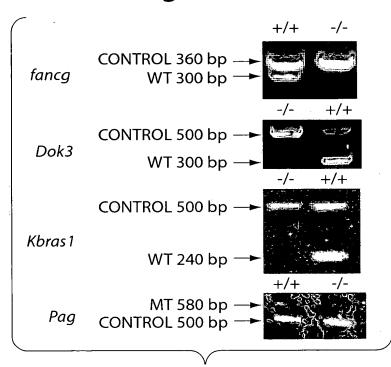


Fig. 13B

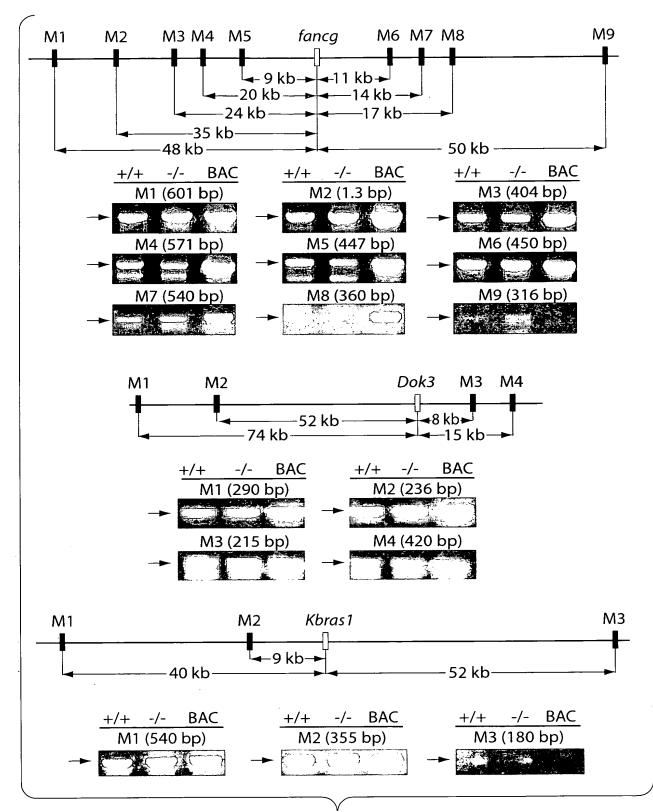


Fig. 13C

_			_
っ	A	/7	Q

		PCK SCR	eening/96 colonies	o coloni(5a		rish screening	₀	
Gene	no signal ^a	5′ BAC	3, BAC	5'&3' BAC	no BAC signal ^b	colonies screened	2 spots	2 spots 3 spots	Effective targeting efficiency ^c
FANCG/XRCC9 36	36	4	9	28	22 (37%)	4	3 (75%)		28%
IκβRASI		16	12	15	52 (55%)	27	6 (22%)	21	12%
CBP/PAG	9	10	5	32	43 (48%)	16	7 (44%)	6	21%
DOK3/DOK-L	9	12	6	55	14 (16%)	11	5 (45%)	9	7%
TAB2	16	∞	16	27	29 (36%)	10	2 (20%)	8	7%

a. A high PCR failure rate (internal control negative) was seen with FANCG/XRCC9 prior to the introduction of improved protocols.

b. Percentage calculation denominator excludes PCR failures.

c. The percentage with no vector signal multiplied by the percentage with two FISH spots.

Fig. 14

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Psv/cask3/cask4 M 31 38 49 57 MT WT

Fig. 15

Pzeo/maguin-3/maguin-4

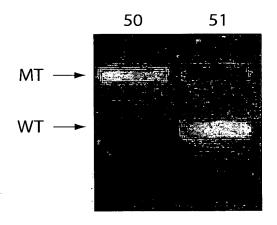


Fig. 16

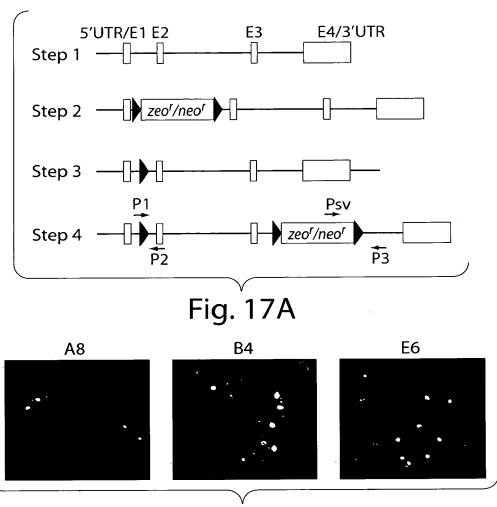


Fig. 17B

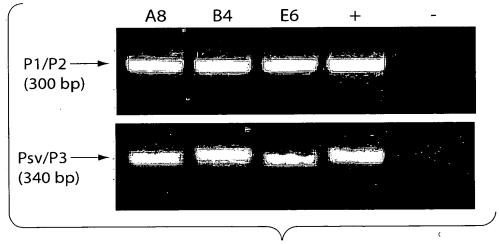


Fig. 17C